The Business Farmer's Page HUSBAND RESCUED

NEW LIFE FOR THE OLD SOIL

Green Manures Work Wonders. W. H. STEVENSON.

Any crops grown and plowed under green to increase the productive capacity of the soil are called green mahure crops. Sometimes such crops oc cupy the land for only a part of the season. They are then known as "cover" crops or "catch" crops.

Green manuring is an important practice, chiefly because it adds organic) matter to the soil, which is gradually converted into humus, an absolutely essential constituent of the soil. Of course humus may be secured by applying barnyard manure, but as a rule there is not enough of this material to meet the needs of the land. However, green manuring is not enough in itself to keep a soil from wearing out, so other practices must be followed. Crops must be grown in rotation, the moisture content of the soil regulated, proper tiliage practiced, the soil kept aweet. the supply of mineral plant food maintained, especially the supply of phosphorus and potassium, and the nitrogen content of the soil kept up. These factors all play an important part in keeping a soil productive, but they are not more important than green

Poor Soils Especially Benefited. In general green manures are beneficial when used on poor soils because of their action on the physical, chemical and bacteriological conditions of the soil. From the physical side green manures influence the moisture, temperature and aeration of soils. For example, on light, sandy soils they prevent rapid drying out by reducing the losses of moisture due to evaporation and percolation, and further make, the soll more compact. While they have just the opposite effect on heavy clay soils, here the organic matter opens up the soil and admits air.

The practice of leaving the soil bare during July and August following the harvest of a small grain crop is very These losses may be prevented in a large measure by growing green manure crops on the land, especially is this true of leguminous crops, which beets, one ounce for 50 feet; Brussels stimulate greater bacterial action, and sprouts, one ounce for 2,000 plants; caras a result larger amounts of available rots, one ounce to 100 feet; celery, one plant food are produced. Rye, wheat, ounce for 2,000 plants; Swiss chard. buckwheat and rape are the nonlegu- one ounce for 50 feet; lettuce, one minous crops which are commonly ounce for 100 feet; onions, one ounce used for green manuring, while red for 100 feet; sets, one quart for 50 feet; clover, mammoth clover, sweet clover, parsley, one ounce for 150 feet; parscrimson clover, Canada field peas, cow- nips, one onnce for 200 feet; peas, one peas, soy beans and vetches are the quart for 100 feet; potatoes, one peck best known legumes for this purpose.

The secret of keeping our gardens and fields fertile is to plow deep, and if necessary subsoft, cultivate thor started in boxes in the house or under oughly and plant leguminous crops.

SEEDS IN APRIL

Plant Only Real Live Ones and Keep Them Growing.

Good seeds to grow should be pure or free from other kinds of seeds, be true to name and possess the greatest possible longevity. Testing seeds is in itself interesting, but few have the time for it, and therefore we should use care in buying only from the reliable seed houses. Corn, however, should be test ed in order to avoid loss from low vital ity and thus having to replant. Testing seeds is a simple matter, and many use the pasteboard fillers out of egg crates to do it, these being filled with damp sand, then a kernel of corn is placed in such and covered with sand, afterward being watered thoroughly with lukewarm water; a piece of damp cotton cloth is then laid over the tester until the seeds sprout, which is in about five days. If the seed is good about 85 per cent should germinate.

Sowing the Seeds.

The two requisites for the germination of seeds are a congenial temperature and a continuous supply of motsture. The gardener has little to say about temperature, but the moisture queer'on can be controlled by the use of the roller or the feet, providing one does not use a seed drill having a small roller attached. Peter Henderson in his book, "Gardening For Profit," devotes a whole chapter to the use of the feet in planting. For example, plant two rows of radishes where the soil is dry and press down firmly with the feet over one row, smoothing the other row with a rake, and note the difference. The radishes which have been tramped down are able to get moisture by capillary attraction, while the others suffer for want of it.

In sowing seeds that start slowly, as parsnips, celery, etc., it is well to sow with them a few strong, quick germinating seeds to break the crust and mark the rows so that cultivation may begin early. Frequently a crop of radishes may be grown this way before bad, as it causes the loss of large the main crop takes up the land. The amounts of nitrogen by percolation following vegetables may be planted as soon as the soll is fit to work:

Asparagus, one ounce for 50 feet: broad beans, one quart for 100 feet; for 100 hills

Many of our vegetable seeds do well when transplanted, and these may be glass or in a nursery row

STOCKING UP WITH PLANT FOOD

Buy Your Fertilizer Intelligently. E. K. PARKINSON.

In buying commercial fertilizer do not be guided wholly by a chemical analysis of the crop to be fertilized. Solla differ widely and my be deep or shallow, sandy or toamy, containing tiberal supplies of plant food which could be brought into use by deep plowing and thorough cultivation, or perhaps markedly lacking in plant foods. First, then, you must know something of the character of your soil, and you may usually count on sandy and gravelly softs being poor in potash and phosphoric acid; clay soils usually rich in potasir and poor in lime and phosphoric acid; timestone soils rich in that element and phosphoric acid and poor in potash, while soils containing leaf mold or other kinds of vegetable matter are usually rich in all

Formulas to Use. Having determined the general nature of the soil, the formulas given below will meet the requirements of good sandy loam. In purchasing fertilizer remember part of the nitrogen should be in the form of nitrate of soda, which becomes immediately available, and part should be in the form of organic nitrogen, such as tankage, dried blood, or dry ground fish, which is not immediately available, while part of the phosphoric acid should be soluble as acid phosphate and part insoluble, such as ground bone, South Carolina rock or Tennessee rock. (These facts may be had from the salesmen.)

l	Crop.	Formula.	Pounds
ł	Asparagus	4-8-10	75
l	Beans	2-8-10	280
ı	Beets	4-8-12	62
1	Cathage (early)		90
1	Cabbage (late)		62
ĺ	Celery		90
1	Corn		30
1	Lettuce		102
j	Onlong		62
ı	Peas		20
ı	Potatoes		50
1	Squast and pumpking		6.0

These elements provide plant food to start crops and feed them through the season. To use this table remember commercial fertilizers are sold on a percentage basis thus: 4-8-10 means 4 per cent actual nitrogen, 8 per cent actual phosphoric acid and 10 per cent potash. So from a 200 bag of potash containing 51 per cent actual potash, 51 per cent of 200 pounds is 102 pounds. The 4-8-10 calls for 10 per cent actual potash or 10 per cent of 102 pounds. which is 10.2 pounds. In feeding plants harrow into the soil part of the fertilizer to be used and then after the plants are up spread a bit more between the rows and work it into the soll with the cultivator. This is especially true of nitrate of soda.

SIMPLE CARE OF CHICKS

Economy In Raising Them.

DR. SANBORN, Holden, Mass. There is less fuss in rearing of chicks than a few years ago. A warm brooder, some fine litter, cracked grain and grit. with perhaps a mush containing ground grain and animal food, and you should raise 90 per cent of the chicks.

Every chick deserves to be well hatched, of sturdy ancestry and prop criy reared. The eggs should be from curefully selected stock, well housed and fed, to produce chicks that stand adverse conditions. The hen or incubater should do its part well, as many a allp is musto between the laying of the egg and the hatching of the chick.

I prefer the lamp heated brooder to either the hen or the heatless brooder. for while some hens do good brooding and in some seasons you can raise good chi ks with the fireless brooder, yet for easy, successful brooding of fifty chicks my preference is for the heated brooder.

The chicks, when dry, are taken from the hen or machine and transferred to the well warmed brooder. I prefer it should be fully as warm under the hover as was the incubator, then, if too hot, the chicks can be spread out into the less warm part of the brooder floor or if at any hour the temperature drops the chicks can retire to a warmer place under the hover

What to Feed Them.

At the start the chicks get cool water to drink and only the food that is in the barn waste used to cover the broad er floor. Really they need no food, and what they find in the waste is plenty When a few days old they need light feeding of cracked wheat, good fish or beef scrap (personally I have found nothing better than a good grade of fish scrap) added at eight days of age and finely cracked, dry corn at ten to twelve days. It is important that all chick feed be sound, sweet and clean Avoid musty corn, scrap that is fit only for fertilizer, and stale drinking water Unless there is some grit in the burn waste that is used for brooder floor it should be supplied. Chicks need a warm place to retire to when cold, an open room to get out into and exercise. as well as a grass run to range over when two weeks old. Close confine ment to hot brooders tends to give leg weakness. As the chicks grow in age the heat of the brooder can be reduced to about 80 degrees. Too many chicks are hatched that are doomed to die because from weak stock or incubated wrongly, but the blame is usually laid on the brooder. Yearling hens make the best of breeders, better than pul lets, and are in their prime through March and April, which is the time for

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nent relieved me for a while, but I was mend it. Begin taking Cardul today, hat, nothing seemed to do me any good.

Write to: Chattamonga Medicine Co., Latter Advisory Dept., Chattamonga, Iron., for Special Instructions on your case and of page book. House the Women, sent in plan wrapper.

n my left side.

and I gave up in despair,

At last, my bushand got me a bottle of Cardul, the woman's tonic, and I commenced taking it. From the very first dose, I could tell it was helping me. I can now walk two miles without its

rom this place, Mrs. Bettie Bullock It you are all run down from womanly writes as follows: "I suffered for four troubles, don't give up in despair. Try years, with womanly troubles, and during Cardui, the woman's ionic. It has helped his time, I could only sit up for a little more than a million women, in its 50 while, and could not walk anywhere at years of continuous success, and should ill. At times, I would have severe pains surely help you, too. Your druggist has sold Cardul for years. He knows what The doctor was called in, and his treat- it will do. Ask him. He will recom-



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dencious of beverages. You can always get the early May picking of Orient Tea if you buy the sanitary packages of New State Tea (the finest produced) or Louis

which is packed in samtary air-tight packages in China and Japan and is opened in your kitchen. Select your favorite variety of New State or Louis Tea. Gunpowder, Imperial, Basker Fired Japan Look for them on your grocer's shelf Ask him -Insist upon them.

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THE RESERVE OF THE PERSON OF T

on sound principles, should be the court's soverign guide. I believe that all public off cials should put in practice the spirit of section I1, article 2 of the Constitution, by giving full measure in honest and conscientious service to the state in return for the confidence of the people and the compensation paid them.

When I accepted the appointment as Associate Justice of the Supreme Court, I did so with the purpose of giving my full time to the duties of the office. The court is far behind, and the presence of each member is required constantly, hence. I shall be able to give but little time to campaigning.

will be because I am giving my Contracting. time and personal attention to the duties of the office.

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